

CLAIMS

1. A material for formation of carbon dioxide external preparation, characterized by comprising:

a base agent that comprises a polymeric three-dimensional network structure impregnated with a viscous material containing at least an acid and water, and is made to contact with the skin in use; and

a reactant that contains at least a carbonate, and is made to contact with the base agent in use so as to generate carbon dioxide, the carbon dioxide dissolving in the viscous material substantially in a non-bubble state.

2. The material for formation of carbon dioxide external preparation according to claim 1, wherein the polymeric three-dimensional network structure is sheet-like.

3. The material for formation of carbon dioxide external preparation according to claim 1, wherein the polymeric three-dimensional network structure is a fibrous or porous absorbent.

4. The material for formation of carbon dioxide external preparation according to claim 1, wherein the viscous material contains at least one thickener selected from the group consisting of sodium alginate, propylene glycol alginate ester, carrageenan, carboxyvinyl polymers, polyvinyl alcohol and polyvinyl pyrrolidone.

5. The material for formation of carbon dioxide external

preparation according to claim 1, wherein the viscous material is an emulsion or cream containing at least an acid, water, an oil and a surfactant.

6. The material for formation of carbon dioxide external preparation according to claim 1, wherein the viscous material contains at least one thickener selected from the group consisting of sodium alginate, propylene glycol alginate ester, carrageenan, carboxyvinyl polymers, polyvinyl alcohol and polyvinyl pyrrolidone,

the acid in the viscous material is at least one selected from the group consisting of malic acid, succinic acid, sodium dihydrogen phosphate, carboxyvinyl polymers, citric acid, L-ascorbic acid and tartaric acid,

and the polymeric three-dimensional network structure is a nonwoven cloth or a sponge.

7. The material for formation of carbon dioxide external preparation according to claim 1, wherein the reactant is a viscous material further containing a thickener and water.

8. The material for formation of carbon dioxide external preparation according to claim 1,

wherein the reactant contains water and at least one thickener selected from the group consisting of sodium alginate, propylene glycol alginate ester, carrageenan, polyvinyl alcohol and polyvinyl pyrrolidone,

and the carbonate is sodium hydrogencarbonate.

9. The material for formation of carbon dioxide external

preparation according to claim 1,

wherein the viscous material in the base agent contains at least one thickener selected from the group consisting of sodium alginate, propylene glycol alginate ester, carrageenan, carboxyvinyl polymers, polyvinyl alcohol and polyvinyl pyrrolidone,

the acid in the viscous material is at least one selected from the group consisting of malic acid, succinic acid, sodium dihydrogen phosphate, carboxyvinyl polymers, citric acid, L-ascorbic acid and tartaric acid,

the polymeric three-dimensional network structure is a nonwoven cloth or a sponge,

the reactant contains water and at least one thickener selected from the group consisting of sodium alginate, propylene glycol alginate ester, carrageenan, polyvinyl alcohol and polyvinyl pyrrolidone,

and the carbonate is sodium hydrogencarbonate.

10. The material for formation of carbon dioxide external preparation according to claim 1, wherein the reactant is supported on a sheet-like or bag-shaped support.

11. The material for formation of carbon dioxide external preparation according to claim 10, wherein the support on which the reactant is supported, the surface that is on the atmosphere side in use is covered with a covering material that is impermeable to or has low permeability to carbon dioxide.

12. A carbon dioxide external preparation, characterized

by being obtained using the material for formation of carbon dioxide external preparation according to any one of claims 1 through 11, and having carbon dioxide dissolved in the viscous material substantially in a non-bubble state.